## Amendment to the Claims

Please cancel claims 1 and 2.

- 3. (new) A composite concrete pavement comprising a surface course of normal concrete of the thickness determined by requirements for abrasion resistance and a subbase or lower layer wherein the coarse aggregate of the concrete of said subbase or lower layer is of small grains crushed limestone finer than 9.5 mm of grading intermediate between the coarse and fine aggregates in the Terminology of ASTM C125 defined as enriched limestone waste, the concrete of said subbase being characterized by specified compressive strength f<sub>c</sub><sup>1</sup> from 1000 to 5000 psi and modulus of rupture (MR) more than 750 psi, respectively.
- 4. (new) The composite concrete pavement of claim 1 wherein small grains crushed limestone as a coarse aggregate of concrete of subbase or lower layer defined as enriched limestone waste is a processed by-product of manufacture of crushed limestone of regular sizes Nos. 56, 57, 6, and 67, with rated dimensions 25-9.5 mm, 25-4.75 mm, 19-9.5 mm, and 19-4.75 mm, respectively, the physical properties of this coarse aggregate being in accordance with requirements of ASTM C33.

- 5. (new) The composite concrete pavement of claim 3 wherein the coarse aggregate in the concrete of said subbase finer than 4.75 mm is substantially less than that of the largest size of fine aggregate number 9, according to ASTM C33 and close to, but not exceeding, two-thirds of the total weight of aggregate.
- 6. (new) The composite concrete pavement of claim 3 wherein the coarse aggregate in the concrete of said subbase finer than 2.36 mm (Sieve No. 8) does not exceed about 10% of the total weight of aggregate.
- 7. (new) The composite concrete pavement of claim 3 wherein the coarse aggregate in the concrete of said subbase finer than 1.18 m (Sieve No. 16) does not exceed about 7% of the total weight of aggregate.
- 8. (new) The composite concrete pavement of claim 3 wherein the coarse aggregate is supplied from a bin in a concrete plant and the amount of said coarse aggregate supplied from said aggregate bin for said subbase finer than 300 μm (Sieve No. 50) does not exceed abut 3% of the total weight of aggregate.

- 9. (new) The composite concrete pavement of claim 3 wherein the concrete of said subbase or lower layer is defined as enriched limestone waste characterized by compressive strength higher at least by 10% and up to 20% than that of concrete of the same consumption of cement with crushed limestone as a coarse aggregate of grading corresponding to the least size of coarse aggregate No. 89 and largest Size of fine aggregate No. 9 according to ASTM C33, respectively.
- 10. (new) The composite concrete pavement of claim 3 wherein the concrete of said subbase or lower layer is defined as enriched limestone waste characterized by compressive strength higher or at least close to that of concrete of the same consumption of cement and twice as high consumption of admixture with crushed granite of regular sizes as a coarse aggregate, while the flexural strength of this concrete is higher than that for concrete of the same consumption of cement with crushed granite of regular sizes as a coarse aggregate.

- The composite concrete pavement of claim 3 wherein the 11. (new) concrete mix design of said subbase or lower layer is determined by the value of 28-day modulus of rupture required according to Portland Cement Association Engineering Bulletin EB 109P and equal to the mean value of 28-day flexural strength, the mean value of flexural strength being estimated as 9.42√ f<sub>cr</sub><sup>1</sup>, where f<sub>cr</sub><sup>1</sup> is the mean value of 28-day compressive strength defined according to American building code ACI 318 as required average 28-day compressive strength and equal to fc + 1.34s where fc and s are specified compressive strength and standard deviation of this strength, respectively, the estimation of 28-day modulus of rupture of concrete being the mean value of flexural strength corresponding to the mean value of compressive strength and the value of the specified compressive strength of this concrete fc, taking into account the statistical connection between compressive and flexural strength of concrete mix design of concrete of modulus of rupture of required value equal to the mean value of flexural strength of this concrete can be replaced by more convenient mix design of concrete of specified compressive strength f<sub>c</sub><sup>1</sup> corresponding to this value of modulus of rupture.
- 12. (new) The composite concrete pavement of claim 11 wherein said mix design of concrete of 28-day values of modulus of rupture (MR) equal to 550, 600, 650, 700, and 750 psi can be carried out according to the values corresponding to the 28-day values of specified compressive strength f<sub>c</sub> equal to 3,000, 3,500, 4,000, 4,500, and 5,000 psi, respectively.

- 13. A composite pavement comprising a surface course of normal concrete determined by requirements for abrasion resistance and a subbase wherein the coarse aggregate of the concrete of said subbase is of small grains crushed limestone finer than 9.5 mm.
- 14. The composite concrete pavement of claim 13 wherein said coarse aggregate is defined as enriched limestone waste.
- 15. The concrete pavement of claim 13 wherein the concrete of said subbase is characterized by specified compressive strength